

- (c) concentrating the extracted pleuromutilins; and
(d) crystallizing the pleuromutilins.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for the preparation of a semi-synthetic pleuromutilins derivative obtained from (M1).

USE - For the preparation of pleuromutilin for preparing semi-synthetic pleuromutilins derivative (claimed) e.g. a mixture of pleuromutilin and mutilin 14-acetate can be hydrolyzed to mutilin, which may then be used as a synthetic starting material.

ADVANTAGE - The method provides high purity product that can be crystallized directly without the need for intermediate purification steps. The benefits and improvements of this process thus include fewer processing steps with high yields as the pleuromutilins present in both the mycelium and the supernatant are recovered. The method provides an efficient extraction suited for large-scale industrial operations.

AN 2004-238751 [22] WPIDS
DNC C2004-093412 [22]
TI Preparation of pleuromutilins useful for preparing
semi-synthetic pleuromutilins derivative involves extracting
unfiltered culture medium of pleuromutilins with a water
immiscible organic solvent
DC B05; D16
IN REES M J; ROBINS K G; STEFANSKA A L; THIRKETTLE J E; VERRALL M S; YEANDLE
D A
PA (GLAX-C) GLAXO GROUP LTD; (REES-I) REES M J; (ROBI-I) ROBINS K G; (STEF-I)
STEFANSKA A L; (THIR-I) THIRKETTLE J E; (VERR-I) VERRALL M S; (YEAN-I)
YEANDLE D A
CYC 104
PIA WO 2004015122 A1 20040219 (200422)* EN 19[0]
AU 2003249090 A1 20040225 (200456) EN
EP 1537226 A1 20050608 (200537) EN
JP 2005535324 W 20051124 (200581) JA 21
US 20060166341 A1 20060727 (200650) EN
ADT WO 2004015122 A1 WO 2003-GB3452 20030807; AU 2003249090 A1 AU 2003-249090
20030807; EP 1537226 A1 EP 2003-784267 20030807; EP 1537226 A1 WO
2003-GB3452 20030807; JP 2005535324 W WO 2003-GB3452 20030807; JP
2005535324 W JP 2004-527034 20030807; US 20060166341 A1 WO 2003-GB3452
20030807; US 20060166341 A1 US 2005-524099 20051007
FDT AU 2003249090 A1 Based on WO 2004015122 A; EP 1537226 A1 Based on WO
2004015122 A; JP 2005535324 W Based on WO 2004015122 A
PRAI GB 2002-18578 20020809

=> DIS HIST

(FILE 'HOME' ENTERED AT 13:38:14 ON 07 FEB 2008)

FILE 'REGISTRY' ENTERED AT 13:38:33 ON 07 FEB 2008

E 4-METHYL-2-PENTANONE/CN

L1 1 S E3

FILE 'CAPLUS, BIOSIS, WPIDS, AGRICOLA, MEDLINE' ENTERED AT 13:39:37 ON 07
FEB 2008

L2 18606 S L1 OR 2-METHYL-4-PENTANONE OR 2-METHYLPROPYL METHYL KETON
L3 6801 S MIK OR MIBK OR NSC 5712
L4 22862 S L2 OR L3
L5 482 S PLEUROMUTILIN?
L6 6801 S L3 AND L4
L7 5 S L5 AND L4